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STRANGE VIBES FROM USS THEODORE ROOSEVELT

Visitors aboard the carrier USS Theodore Roosevelt, flagship of a fleet patrolling the Adriatic on Bosnian alert, found themselves in trouble recently because of mysterious electronic vibrations.

The emissions from the bridge were so strong that they caused electronically operated cameras to jam, wiped the memories off portable computers and drained batteries. "I lost the entire contents of my personal computer," lamented one reporter.

Light meters gave rogue readings. Photographers clambering among the antennae and radar domes to get shots of deck landings were horrified to find that their cameras had stopped.

Admiral Jay Johnson, who had offered access to the ship, apologised. "I'm really sorry about this, guys. We give off every kind of vibe known to man. If it's electronic gadgetry, we've got it. We can jam radar and radio and divert smart missiles or torpedoes, guide and mis-guide aircraft, and do all kinds of other things I'm not even allowed to tell you about."

(Source: The European, 27-30 May 1993)

NEW INVENTION POINTS TOWARDS FREE ENERGY

Researcher Neville Salmond, of Upper Sturt in South Australia, has taken a significant step toward finding a free, non-polluting, inexhaustible, constantly available and universally distributed energy source.

Neville says this energy source atmospheric pressure—can be converted into electricity using the energy conversion machine he has invented.

"It is a staggering concept," he said.
"I had to formulate what I believe is a
new scientific principle to form an operational base for the technology."

His principle is based on the fact that no body, whether bird or man-made machine which is heavier than air, can remain suspended, either moving or stationary, without converting energy from the atmospheric pressure surrounding it.

His machine uses the same principles of energy balances in a terrestial system as those that relate to flight.

His prototype unit has propellers driven by high-speed electric motors set at opposite sides of a horizontal wheel.

This passes over a copper coil where it generates electricity.

Because it needs electricity to begin the process, it cannot be classed as a perpetual motion machine. Neville describes it as a "continuous catalyst system".

"The concept is essentially simple," he says.

"Atmospheric pressure produces an energy differential which is converted into kinetic energy."

Neville Salmond can be contacted at:

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NEW RECORD SET FOR MAGNETIC FIELD STRENGTH

Researchers at the University of Houston Institute for Beam Particle Dynamics, and the Texas Center for Superconductivity, have announced that they have broken the world record for magnetic field strength.

Their research has created a superconducting magnet with a measured field strength of nearly 40,000 gauss. The old world record, which had stood for 19 years, was 23,000 gauss. Electromagnets used in magnetic resonance imaging operate in the 20,000 gauss range.

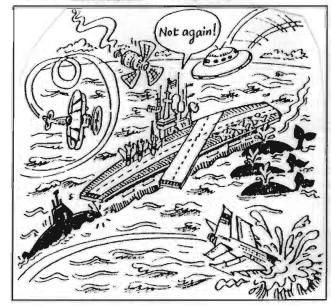
The magnet, about the size of a quarter (which is the size of an Australian 10-cent piece), is composed of a mixture of ytterbium, barium, and copper oxide, which is grown into flat crystals. The crystals are bombarded with radiation in a cyclotron at Indiana University and then attached together, about eight crystals thick, with rubber cement. The magnet has no magnetic force at room temperature, but when chilled to 64.5° Kelvin it becomes a superconducting magnet.

Physicist Roy Weinstein, who works on the research team, told the 29 April Houston Chronicle that the technology "could lead to dramatic improvements in large electric motors". He said that the magnet has been used to make a small electric motor which produces about one-tenth of a horsepower. He is hoping that further work will produce a motor with 50 horsepower or more.

(Source: EIR, 14 May 1993)

THE ULTIMATE DOOMSDAY WEAPON

It is evident to all in today's society how dependent our infrastructure is on the humble transistor junction. It is also evident how vulnerable such devices are, and that they can be made to fail by inducing, in wires to which the device is connected, a voltage sufficiently large to cause breakdown. It is known that



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this can be achieved by the so-called EMP or electromagnetic pulse.

It is thought that the only way to achieve an EMP of sufficient magnitude to cause destruction of transistor junctions would be to explode a nuclear weapon in the ionosphere. What I suggest here, is that by resonating the earthionosphere system, the same result as the EMP can be achieved, using technology that is nearly a century old, and freely available to almost any nation on earth.

I have called this concept, rather 'ABORTION'unfortunately, Apocalypse Based On Resonating The IONosphere. The consequences of any one nation having such an ABORTION weapon, are of course, too great to bear thinking about. To operate such a weapon would immediately cause all computer systems and electronic equipment which was not adequately shielded to fail within certain areas, indeed irreparably, if the field strength was high enough. In fact, the affected areas of the world would be immediately plunged into chaos—and back into the pre-transistor age.

So what is resonance, and how would one resonate the earth-ionosphere system?

Resonance is the process by which small impulses can be made to constructively interfere with each other so that the result is a build-up of the oscillation amplitude until something fails. The classic example is that of troops marching in step across a bridge-if the bridge has a resonant harmonic close enough to the frequency of the troops' footsteps, then it will begin to bounce up and down in time with the footsteps until the oscillations build up enough to cause structural failure of the bridge. This is why troops break step when crossing a bridge. Another example is the Tacoma Narrows bridge in Washington, USA, which was destroyed by a resonant oscillation in 1940, in this instance caused by a wind at the correct speed.

The ionosphere can be considered to be a reflecting surface for radio waves of sufficiently low frequency. At the same time, the surface of the Earth, mostly covered by a conductor (seawater), is also a reflector. The result is that the gap between the Earth and the ionosphere acts as a waveguide for VLF (very low frequency) radio wave propagation—the principle on which the Omega VLF submarine global positioning system works-and electromagnetic waves can travel along this waveguide, just as waves travel across the ocean. The Earth-ionosphere system is thus a resonant cavity, and can be resonated by any transmitter operating at the correct frequency, provided its power output is sufficient to offset dissipative losses. The fundamental resonant frequency of the earth-ionosphere system is easily worked out-at this frequency, an electromagnetic wave must be of the same wavelength as the circumference of the Earth, thus:

Frequency = (Speed of light in ionosphere)/2 x pi x (Radius of the Earth)

This works out to be about 7.5 Hertz. The higher frequency harmonics of this fundamental are not related by any simple mathematical formula, but are the solutions to the generalised spherical waveguide problem, which has undoubtedly been worked out by someone, somewhere, probably some time ago.

But what form of transmitter could achieve the required very high power output, and is there any proof that it would be successful? The answer to this is provided by that enigma of a man, Tesla, and this is perhaps the reason why the CIA was so interested in his work. For by using his famous invention that bears his name, the Tesla Coil, he did in fact resonate the Earthionosphere system in 1899. This was probably the first and only time that this was done, for to do so since the invention of the transistor would cause, at certain points on the Earth's surface corresponding to the anti-nodes (maximums) of oscillation, variations in field strength that would be so great as to cause the catastrophic effects hinted at above.

As the simplest example of locating nodes and anti-nodes, if the frequency of transmission were the fundamental, and the transmitter were at, for argument's sake, the south pole, then there would be an anti-node at the transmitter, another anti-node at the north pole, and a node, or region of zero field strength, along the equator. To locate nodes and antinodes of the higher frequency harmonics requires knowledge of the generalised solution to the spherical waveguide, and a visit to your local physics library.

One important point to note: the transmitter and its power supply would have to be very well shielded, or else it would destroy its own electronics.

By Keith D. Gillespie, B.Sc. (Hons. Physics)

THE SPA ENEMA ELECTRIC ROCKET CHOCOLO CONTROL OF THE SPA ENEMA ELECTRIC ROCKET ELECTRIC

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PROF. PHILIP CALLAHAN IN AUSTRALIA—OCTOBER 1993

Some of our readers may remember the article in NEXUS vol. 2, #2, based on Prof. Philip Callahan's research into the Irish Round Towers, and how the incoming cosmic radiation was 'harvested' and re-radiated out into surrounding fields for agricultural improvement.

Well, he is being brought out to lecture in Victoria, NSW and South Australia in October. We recommend you try to attend his talks and workshops, which will also include slide show presentations.

Some biographical details follow:

"Phil Callahan is a highly innovative agricultural scientist. He is also an artist, author, explorer and natural philosopher. He has degrees in literature, ornithology and a PhD. in entomology, the study of insects. This man has walked from Japan to Ireland, lived with the Bedouin in the deserts of the Middle East and has studied in the jungles of the Amazon. He has meditated in the great temples of bygone eras, and

slept in the great stone cathedrals that are now roped off from tourists. He is a 4,000-year-old man who is also perfectly comfortable with computerised scientific technology. It is this rare mix that the world does not see enough of. He is helping us all understand the very nature of life and how it relates to man, his religions and his agriculture."

(Adapted from the foreword to Philip Callahan's book Ancient Mysteries, Modern Visions.)

Professor Callahan:

- explores the magnetic life of the soil and discovers simple keys to the mysteries of the ancient world—and, most importantly of all, the keys to soil fertility, natural pest control and food production for the 21st century.
- is an internationally acclaimed entomologist/specialist in insect communication at major US institutes and universities.
- was awarded the Sears Roebuck Foundation Award for contributions to agriculture, and the Superior Service Award from the US Department of Agriculture.

- is a specialist in infrared and lowenergy systems.
- is the author of 135 scientific papers and 14 books.
- discovered the purpose and principles of the ancient Celtic towers.
- is a passionate explorer of the wonders of our Earth; a photographer, writer and Fellow of the Explorers Club.
- provides a new look at tachyons and magnetic monopoles.
- examines paramagnetism—the key to soil fertility and natural pest control.

Phil Callahan's work has fascinating and far-reaching application for all of us in Australia, from our backyard vegie gardens to our nation's food production.

For further information, and for bookings, contact:

The Environmental Energy Company PO Box 312, Castlemaine, Vic 3450 Tel: (054) 73 4332; Fax: (054) 70 5106

or

Townley's Environmental Services 20 Second Street, Ashbury, NSW 2193 Tel/Fax: (02) 799 3738